PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PPPP	AAAA \AAAA	AAA	\$	RRRRRRRRRRRR RRRRRRRRRRRR RRRRRRRRRRRR		LLL LLL LLL
PPP	PPP	AAA	AAA	SSS	RRR RRR	ŤŤŤ	iii
PPP	PPP	AAA	AAA	ŠŠŠ	RRR RRR	ŤŤŤ	ΙΙΙ
PPP	PPP	AAA	AAA	SSS	RRR RRR	ŤŤŤ	iii
PPP	PPP	AAA	AAA	SSS	RRR RRR	ŤŤŤ	בונו – ביו היו היו היו היו היו היו היו היו היו ה
PPP	PPP	AAA	AAA	SSS	RRR RRR	ŤŤŤ	<u>ו</u> וו
PPP	PPP	AAA	AAA	ŠŠŠ	RRR RRR	ŤŤŤ	īīī
			AAA	SSSSSSSS	RRRRRRRRRRR	ŤŤŤ	iii
PPPPPPPP	PPPP	AAA	AAA	\$\$\$\$\$\$\$\$\$	RRRRRRRRRRR	ŤŤŤ	iii
PPPPPPPP	PPPP	AAA	AAA	SSSSSSSS	RRRRRRRRRRR	ŤŤŤ	ίίί
PPP		AAAAAAA		SSS	RRR RRR	TTT	LLL
PPP		AAAAAAAA	AAAAAA	ŠŠŠ	RRR RRR	TTT	ίίί
PPP		AAAAAAAA	AAAAAA	ŠŠŠ	RRR RRR	TTT	ΙΙΙ
PPP		AAA	AAA	SSS	RRR RRR	TTT	LLL
PPP		AAA	AAA	SSS	RRR RRR	TTT	LLL
PPP		AAA	AAA	\$\$\$	RRR RRR	TTT	LLL
PPP		AAA	AAA	SSSSSSSSSS	RRR RRR	TTT	LLLLLLLLLLLLLL
PPP		AAA	AAA	SSSSSSSSSS	RRR RRR	TTT	LLLLLLLLLLLLLL
PPP		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR RRR	TTT	LLLLLLLLLLLLLLL

Sym

_\$2

PAS

PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAA AA AA AA AA AA AA AA AA AA AA AAAAAAAA	\$	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	\$	LL LL LL LL LL LL LL LL LL LL LL LL LL	••••
LL LL LL LL LL LL LL LL LL LL LL LL LL		\$					

| **F

G 12 PASSABS_L lable of contents - Return absolute value 46 75 DECLARATIONS
PASSABS_L - Take absolute value unchecked (<u>2)</u> (<u>3</u>)

Page 0

PAS Tat

16-SEP-1984 01:21:44 VAX/VMS Macro V04-00

H 12

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33 34

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Page (i)

.TITLE PASSABS_L - Return absolute value .IDENT /1-001/ : File: PA ; File: PASABSL.MAR Edit: SBL1001

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; FACILITY: Pascal Language Support

ABSTRACT:

This module contains PAS\$ABS_L, which returns the absolute value of a longword without checking for overflow.

ENVIRONMENT: Runs at any access mode, AST Reentrant

AUTHOR: Steven B. Lionel, CREATION DATE: 4-Nov-1980

MODIFIED BY:

1-001 - Original. SBL 4-Nov-1980 44 :--

PAS 1-(

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J 12
               - Return absolute value 16-SEP-1984 01:21:44 VAX/VMS Macro V04-00 PAS$ABS_L - Take absolute value unchecke 6-SEP-1984 11:29:58 [PASRTL.SRC]PASABSL.MAR;1
                                                                                                                                   Page
                                                                                                                                           3
(3)
                                              .SBTTL PAS$ABS_L - Take absolute value unchecked
                               76
77
                     0000
                     0000
                                     FUNCTIONAL DESCRIPTION:
                     0000
                               78
                                             This routine returns the absolute value of a signed longword integer without checking for overflow. If the argument is -2**31, the result returned is -2**31.
                     0000
                               79
                     ŎŎŎŎ
                                80
                     0000
                               81
                     0000
                     0000
                                      CALLING SEQUENCE:
                     0000
                     0000
                               85
                                             Result.wl.v = PAS$ABS_L (Long.rl.r)
                               86
87
88
                     0000
                     0000
                                      FORMAL PARAMETERS:
                     0000
                     0000
                               89
                                                       - Signed Longword argument
                                             Long
                               90
91
93
93
                     0000
                     0000
                                      IMPLICIT INPUTS:
                     0000
                     0000
                                             NONE
                     0000
                               95
96
97
                     0000
                                      IMPLICIT OUTPUTS:
                     0000
                     0000
                                             NONE
                               98
                     0000
                               99
                     0000
                                      ROUTINE VALUE:
                     0000
                              100
                     0000
                              101
                                              The absolute value_of the argument unless the argument is -2**31
                              102
                     0000
                                              in which case -2**31 is returned.
                     0000
                     0000
                              104
                                     SIDE EFFECTS:
                     0000
                              105
                     0000
                              106
                                             NONE
                     0000
                              107
                     ŏŏŏŏ
                              108
                     ŎŎŎŎ
                              109
                     ŎŎŎŎ
             0000
                              110
                                                                                      : Integer overflow must be disabled
                                              .ENTRY PASSABS_L, ^M<>
                     0002
                              111
                     0002
                              112
     04 BC
03
                                                        24(AP), RO
                                                                                       ; Fetch argument ; Done if not negative
50
                D0
                                             MOVL
                18
CE
04
                     8006
                                             BGEQ
                                                        10$
   50
          50
                     0008
                              114
                                             MNEGL
                                                        RO, RO
                                                                                         Take absolute value
                     ŎŎŎB
                              115 105:
                                                                                       : End of routine PAS$ABS L
                                              RET
```

; End of module PAS\$ABS_L

.END

PA:

PASSABS_L

1-001

- Return absolute value

16-SEP-1984 01:21:44 VAX/VMS Macro V04-00 6-SEP-1984 11:29:58 [PASRTL.SRC]PASABSL.MAR;1

(3)

PA

PASSABS_L

00000000 RG

Psect synopsis!

PSECT name PSECT No. Attributes Allocation 00000000 CON ABS 00 (0.) NOPIC LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE PASSCODE 0000000C 12.) 01 (1.) REL USR CON LCL SHR EXE RD NOWRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	10	00:00:00.06	00:00:01.29
Command processing	81	00:00:00.65	00:00:03.62
Pass 1	59	00:00:00.31	00:00:01.91
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	37	00:00:00.25	00:00:01.27
Symbol table output	2	00:00:00.01	00:00:00.63
Psect synopsis output	Ī	00:00:00.02	00:00:00.02
Cross-reference output	Ó	00:00:00.00	00:00:00.00
Assembler run totals	19Ž	00:00:01.31	00:00:08.75

The working set limit was 750 pages.
1105 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 1 non-local and 1 local symbols.
117 source lines were read in Pass 1, producing 10 object records in Pass 2.
0 pages of virtual memory were used to define 0 macros.

Macro library statistics !

0

Macro library name

Macros defined

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

O GETS were required to define O macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$: PASABSL/OBJ=OBJ\$: PASABSL MSRC\$: PASABSL/UPDATE=(ENH\$: PASABSL)

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